

Claims

1. A panel for use in a cover profile system for forming a walking surface, roof surface, wall surface or wall, comprising a flat, elongated hollow profile body, having a first wall, a second wall, a first longitudinal edge and a second longitudinal edge, wherein the first longitudinal edge is provided with a first longitudinal strip having at least one hole for attachment means, wherein said second longitudinal edge is provided with a space for accommodating an edge area of a first longitudinal strip of a second panel to be located in an adjacent position, wherein the second longitudinal edge of said panel is provided with a second longitudinal strip, which when in mating engagement with an adjacent panel, extends over a first longitudinal strip of said adjacent panel to at least an oppositely located longitudinal wall of said adjacent panel when in mating engagement therewith.

2. The panel according to Claim 1, wherein the panel has a first longitudinal wall which is adjacent the first longitudinal edge and a second longitudinal wall which is adjacent the second longitudinal edge.

3. The panel according to Claim 2, wherein said second longitudinal wall is provided with a first opening for accommodating a second longitudinal strip from a second panel when said second panel is matingly engaged with said panel, wherein the opening extends about the second longitudinal strip with little play that allows an ingoing and outgoing motion to enable assembly of a plurality of panels.

4. The panel according to Claim 3, wherein the second longitudinal strip can fit into an opening of an adjacent panel.

5. The panel according to Claim 3, wherein a first opening is arranged in a first substantially raised longitudinal wall.

6. The panel according to Claim 4, wherein the first opening opens inwardly into a first longitudinal chamber, which first longitudinal chamber is bounded by an inwardly recessed portion of the first longitudinal wall.

7. The panel according to Claim 6, wherein the first longitudinal chamber is bounded by a first partition extending between the first wall and the second wall.

8. The panel according to Claim 1, wherein the second longitudinal strip is formed at the second longitudinal edge.

9. The panel according to Claim 3, wherein a space for accommodating a first longitudinal strip from an adjacent panel is formed by a second opening, which is defined by a groove formed in the second longitudinal edge, which groove is bounded by groove walls.

10. The panel according to Claim 9, wherein the first longitudinal strip is provided with a first stop for stopping against a second stop located on at least one of a groove wall of an adjacent panel.

11. The panel according to Claim 10, wherein said opening has a groove wall provided with a first offset portion situated opposite a second stop, wherein the groove has a width for accommodating a first longitudinal strip of an adjacent panel, wherein the first longitudinal strip at a side that faces away from the first stop is provided with a second offset portion which in height corresponds to the first stop, which second offset portion in a direction towards the profile center is situated offset with respect to the first stop, wherein the depth of the groove is smaller than the distance from the first stop to the end of the first longitudinal strip.

12. The panel according to Claim 11, wherein the second longitudinal strip extends in line with the uppermost groove wall.

13. The panel according to Claim 1, wherein the first longitudinal strip is provided with a pilot edge at a side that faces a bottom side of the panel.

14. The panel according to Claim 1, wherein the first longitudinal edge of said panel, when combined with a second panel having a second longitudinal edge together with the second longitudinal strip form an upwardly opening channel.

15. The panel according to Claim 1, wherein between the first wall and the second wall a plurality of partitions are formed for defining a plurality of longitudinal chambers.

16. The panel according to Claim 1, wherein the first wall has a flat top surface which preferably is provided with a texture.

17. The panel according to Claim 16, wherein the texture comprises a number of parallel oriented longitudinal grooves having a depth of about at least one mm.

18. The panel according to Claim 16, wherein the texture comprises small fine longitudinal grooves, being irregularly shaped and/or limited in length and/or at an acute angle to the longitudinal direction of the profile body.

19. The panel according to Claim 1, wherein the second wall is provided with longitudinal grooves.

20. The panel according to Claim 19, wherein a lower side of the second longitudinal strip is provided with longitudinal grooves.

21. The panel according to Claim 1, wherein the first longitudinal strip at the location of the holes for attachment has a lower surface that is in one plane with the surface of the second wall.

22. The panel according to Claim 1 wherein the first longitudinal strip at the location of the holes is provided with protrusions for spacing it from the surface of the second wall.

23. The panel according to Claim 1, wherein the first wall and the second wall are parallel.

24. A cover profile system, comprising a plurality of flat, elongated hollow profile bodies in mating engagement with each other, each of said bodies comprising a first wall, a second wall, a first longitudinal edge and a second longitudinal edge, wherein the first longitudinal edge is provided with a first longitudinal strip having at least one hole for attachment means, wherein said second longitudinal edge is provided with a space for accommodating an edge area of a first longitudinal strip of an adjacent profile body, wherein the second longitudinal edge is provided with a second longitudinal strip, which is in mating engagement with the side of the first strip of the adjacent profile body that faces the first wall and extends over the first strip to at least at an opposite longitudinal wall of the opposite longitudinal edge.

25. The cover profile system according to Claim 1 in the form of a walking surface, roof surface, wall surface or wall.

26. The cover profile system according to Claim 1, wherein the second longitudinal strip extends over the first strip beyond or in the opposite longitudinal wall.

27. The cover profile system according to Claim 26, wherein the opposite longitudinal wall is provided with a first opening for accommodating the second longitudinal strip, wherein the opening extends about the second longitudinal strip preferably with little play that allows an ingoing and outgoing motion.

28. The cover profile system according to Claim 27, wherein the second longitudinal strip abuts on a lowermost boundary of the opening.

29. The cover profile system according to Claim 27, wherein the first opening is arranged in a first substantially raised longitudinal wall.

30. The cover profile system according to Claim 28, wherein the first opening inwardly opens into a first longitudinal chamber, which said first longitudinal chamber is bounded by an inwardly recessed portion of the first longitudinal wall.

31. The cover profile system according to Claim 30, wherein the first longitudinal chamber is bounded by a first partition extending between the first wall and the second wall.

32. The cover profile system according to Claim 24, wherein the second longitudinal strip is formed at the second longitudinal edge.

33. The cover profile system according to Claim 27, wherein the space for accommodating the first longitudinal strip is formed by a second opening, which is defined by a groove formed in the second longitudinal edge, which groove is bounded by groove walls.

34. The cover profile system according to Claim 33, wherein the first longitudinal strip is provided with a first stop for stopping against a second stop on at least one of the groove walls.

35. The cover profile system according to Claim 34, wherein the other groove wall is provided with a first offset portion situated opposite the second stop, wherein the groove has a width corresponding to the thickness of the first longitudinal strip, wherein the first longitudinal strip at the side that faces away from the first stop is provided with a second offset portion which in height corresponds to the first stop, which second offset portion in a direction towards the centre of the profile is situated offset with respect to the first stop, wherein the depth of the groove is smaller than the distance from the first stop to the end of the first longitudinal strip.

36. The cover profile system according to Claim 35, wherein the second longitudinal strip extends in line with the uppermost groove wall.

37. The cover profile system according to Claim 24, wherein the first longitudinal strip is provided with a pilot edge at the side that faces the bottom side.

38. The cover profile system according to 24, wherein the first and second longitudinal edge together with the second longitudinal strip form a upwardly opening channel.

39. The cover profile system according to Claim 24, wherein between the first wall and the second wall a number of partitions have been formed for defining a number of longitudinal chambers.

40. The cover profile system according to Claim 24, wherein the first wall has a flat top surface which preferably is provided with a texture.

41. The cover profile system according to Claim 40, wherein the texture comprises a number of parallel oriented longitudinal grooves, for instance having a depth in the order of one or several mm.

42. The cover profile system according to Claim 40, wherein the texture comprises small fine longitudinal grooves, for instance having a depth in the order of 0.1 mm, and preferably being irregularly shaped and/or limited in length and/or at an acute angle to the longitudinal direction of the profile body.

43. The cover profile system according to Claim 24, wherein the second wall is provided with longitudinal grooves.

44. The cover profile system according to Claim 43, wherein the lower side of the second longitudinal strip as well is provided with longitudinal grooves.

45. The cover profile system according to Claim 24, wherein the first longitudinal strip at the location of the attachment holes has a lower surface that is in one plane with the surface of the second wall.

46. The cover profile system according to Claim 24, wherein the first longitudinal strip at the location of the attachment holes is provided with protrusions for spacing it from the surface of the second wall.

47. The cover profile system according to Claim 24, wherein the first wall and the second wall are parallel.

48. A profile body suitable and intended for a cover profile system according to Claim 24.

49. A profile body according to Claim 48, formed through extrusion from a composite material of a thermoplastic polymer containing cellulose fibres.

50. The profile body according to Claim 49, wherein the content of cellulose fibres is more than 50 % by weight of the profile body.

51. The profile body according to Claim 49, wherein the cellulose fibres comprise a plurality of relatively short, randomly oriented fibres, and a plurality of relatively long fibres that are oriented in profile direction.

52. The profile body according to Claim 51, wherein the short fibres have a length in the range of 0.2 - 2 mm and the long fibres have a length in the range of 2 - 6 mm.

53. The profile body according to Claim 49, wherein the thermoplastic polymer used is selected from the group consisting of polyolefin, polyvinylchloride and polyamide.

54. A profile system for forming a walking surface, roof surface, wall surface or wall, comprising a plurality of flat elongated hollow profile bodies, each comprising a first wall, a second wall, a first longitudinal edge and a second longitudinal edge, wherein the first longitudinal edge is provided with a first longitudinal strip serving as a tongue and the second longitudinal edge is provided with an opening serving as a groove for accommodating an edge area of the first longitudinal strip, wherein the profile bodies have been formed through extrusion from a composite material of a thermoplastic polymer containing cellulose fibres.

55. The profile system according to Claim 54, wherein the content of cellulose fibres is more than 50 % by weight.

56. The profile system according to Claim 54, wherein the cellulose fibres comprise a plurality of relatively short, randomly oriented fibres, and a plurality of relatively long fibres that are oriented in profile direction.

57. The profile system according to Claim 56, wherein the short fibres have a length in the range of 0.2 - 2 mm and the long fibres have a length in the range of 2 - 6 mm.

58. The profile system according to Claim 54, wherein between the first wall and the second wall a plurality of partitions have been formed for defining a plurality of longitudinal chambers.

59. The profile system according to Claim 54, wherein the thermoplastic polymer used is selected from the group consisting of polyolefin, polyvinylchloride and polyamide.

60. The profile body suitable and intended for a cover profile system according to Claim 54.

61. A floor constructed using a cover profile system according to Claim 24.

62. A wall constructed using a cover profile system according to Claim 24.

63. A roof constructed using a cover profile system according to Claim 24.